

# Patent Abstracts of Japan

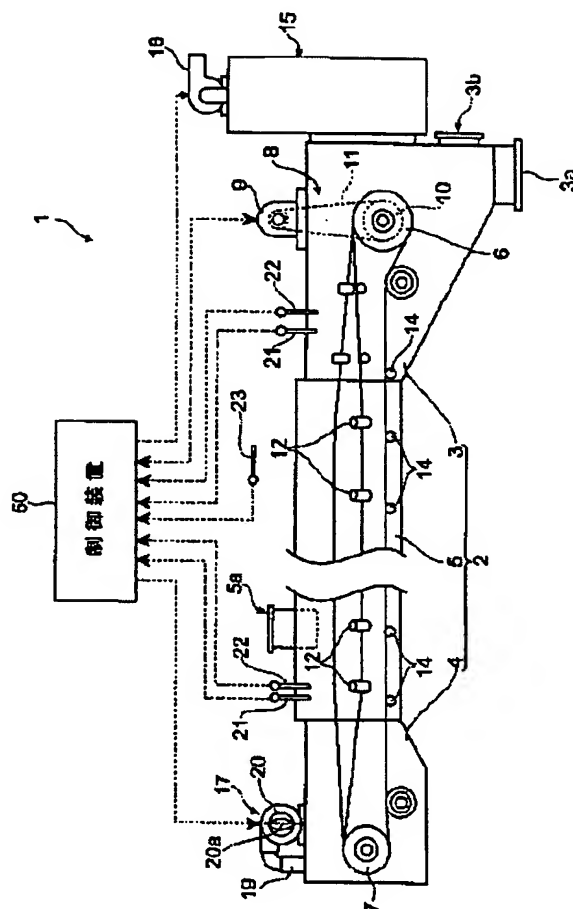
PUBLICATION NUMBER : 2002338058  
PUBLICATION DATE : 27-11-02  
APPLICATION DATE : 15-05-01  
APPLICATION NUMBER : 2001145289

APPLICANT : MITSUBISHI HEAVY IND LTD;

INVENTOR : TAJIMA NORIHIKO;

INT.CL. : B65G 69/20 B65G 15/08 F24F 7/007  
F24F 7/06 F24F 11/02

TITLE : CONVEYER AND METHOD OF  
PREVENTING DEW-CONDENSATION  
ON CONVEYER



ABSTRACT : PROBLEM TO BE SOLVED: To securely prevent the dew-condensation inside a casing of a conveyer and to improve the durability and reliability of the conveyer.

SOLUTION: The conveyer 1 has a belt B stretched inside the casing 2 and a drive unit 8 for driving to rotate the belt, and a load is carried by rotating the belt B in the casing 2. The conveyer 1 also has a suction blower 16 and an air supply blower 17 as a ventilation unit for ventilating the inside of the casing 2, a temperature sensor 21 and a humidity sensor 22 for detecting the dew-point temperature inside the casing 2, an atmospheric temperature sensor 23 for detecting the atmospheric temperature outside the casing 2, and a control device 50. The control device 50 operates the suction blower 16 and the air supply blower 17 based on the deviation  $\Delta T$  between the atmospheric temperature  $T_a$  detected by the atmospheric temperature sensor 23 and the dew-point temperature  $T_h$  obtained from the value detected by the temperature sensor 21 and the humidity sensor 22.

COPYRIGHT: (C)2003,JPO